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## KOREAN PATENT ABSTRACTS

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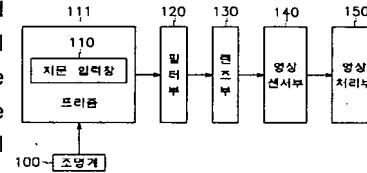| | |
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| (22)Date of filing: 17.09.2002 | (72)Inventor: KWON, YONG HO |
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(54) DEVICE FOR INPUTTING OPTICAL FINGERPRINT TO PREVENT AFTERIMAGE INPUT

(57) Abstract:

PURPOSE: A device for inputting an optical fingerprint to prevent the afterimage input is provided to prevent the afterimage input due to an external light source by using a light source difficult to be detected from the outside as an internal light source and making an image sensor react to the internal light source. CONSTITUTION: A light path changer (111) is equipped with a fingerprint input window (110) and changes a light path by reflecting/refracting light. A lighting system(100) includes the internal light source emitting the light of a specified wavelength range from the wavelength range except the wavelength range of the light inputted from the outside and controls the internal light source in order to emit the light to the fingerprint input window. A filter(120) passes only the light corresponding to the wavelength range from the light changing the light path by the light path changer. The image sensor(140) outputs an electric image signal by receiving the light passed the filter. An image processor(150) formalizes the electric image signal output from the image sensor into a digital signal and recognizes a fingerprint pattern by processing the digital signal.

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